

Environmental Protection Agency

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<sup>2</sup>The equilibrium catalyst Ni concentration must be measured by the procedure, Determination of Metal Concentration on Catalyst Particles (Instrumental Analyzer Procedure) in appendix A to this subpart; or by EPA Method 6010B, Inductively Coupled Plasma-Atomic Emission Spectrometry, EPA Method 6020, Inductively Coupled Plasma-Mass Spectrometry, EPA Method 7520, Nickel Atomic Absorption, Direct Aspiration, or EPA Method 7521, Nickel Atomic Absorption, Direct Aspiration; or by an alternative to EPA Method 6010B, 6020, 7520, or 7521 satisfactory to the Administrator. The EPA Methods 6010B, 6020, 7520, and 7521 are included in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW-846, Revision 5 (April 1998). The SW-846 and Updates (document number 955-001-00000-1) are available for purchase from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402, (202) 512-1800; and from the National Technical Information Services (NTIS), 5285 Port Royal Road, Springfield, VA 22161, (703) 487-4650. Copies may be inspected at the EPA Docket Center (Air Docket), EPA West, Room B-108, 1301 Constitution Ave., NW., Washington, DC; or at the Office of the Federal Register, 800 North Capitol Street, NW., Suite 700, Washington, DC. These methods are also available at <http://www.epa.gov/epaoswer/hazwaste/test/main.htm>.

[70 FR 6948, Feb. 9, 2005]

TABLE 8 TO SUBPART UUU OF PART 63—ORGANIC HAP EMISSION LIMITS FOR CATALYTIC CRACKING UNITS

As stated in §63.1565(a)(1), you shall meet each emission limitation in the following table that applies to you.

| For each new and existing catalytic cracking unit . . .           | You shall meet the following emission limit for each catalyst regenerator vent . . .   |
|---|--|
| 1. Subject to the NSPS for carbon monoxide (CO) in 40 CFR 60.103. | CO emissions from the catalyst regenerator vent or CO boiler serving the catalytic cracking unit must not exceed 500 parts per million volume (ppmv) (dry basis).  |
| 2. Not subject to the NSPS for CO in 40 CFR 60.103 ...            | a. CO emissions from the catalyst regenerator vent or CO boiler serving the catalytic cracking unit must not exceed 500 ppmv (dry basis).<br>b. If you use a flare to meet the CO limit, the flare must meet the requirements for control devices in §63.11(b): visible emissions must not exceed a total of 5 minutes during any 2 consecutive hours. |

[67 FR 17773, Apr. 11, 2002, as amended at 70 FR 6942, 6948, Feb. 9, 2005]

TABLE 9 TO SUBPART UUU OF PART 63—OPERATING LIMITS FOR ORGANIC HAP EMISSIONS FROM CATALYTIC CRACKING UNITS

As stated in §63.1565(a)(2), you shall meet each operating limit in the following table that applies to you.

| For each new or existing catalytic cracking unit . . .            | For this type of continuous monitoring system . . .                                      | For this type of control device . . .  | You shall meet this operating limit . . .   |
|---|--|--|---|
| 1. Subject to the NSPS for carbon monoxide (CO) in 40 CFR 60.103. | Continuous emission monitoring system.   | Not applicable .....   | Not applicable.   |
| 2. Not subject to the NSPS for CO in 40 CFR 60.103.               | a. Continuous emission monitoring system.<br>b. Continuous parameter monitoring systems. | Not applicable .....<br><br>i. Thermal incinerator .....<br><br>ii. Boiler or process heater with a design heat input capacity under 44 MW or a boiler or process heater in which all vent streams are not introduced into the flame zone.<br>iii. Flare ..... | Not applicable.<br><br>Maintain the daily average combustion zone temperature above the limit established during the performance test; and maintain the daily average oxygen concentration in the vent stream (percent, dry basis) above the limit established during the performance test.<br><br>Maintain the daily average combustion zone temperature above the limit established in the performance test.<br><br>The flare pilot light must be present at all times and the flare must be operating at all times that emissions may be vented to it. |

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**TABLE 10 TO SUBPART UUU OF PART 63—CONTINUOUS MONITORING SYSTEMS FOR ORGANIC HAP EMISSIONS FROM CATALYTIC CRACKING UNITS**

As stated in §63.1565(b)(1), you shall meet each requirement in the following table that applies to you.

| For each new or existing catalytic cracking unit . . .            | And you use this type of control device for your vent . . .   | You shall install, operate, and maintain this type of continuous monitoring system . . .  |
|---|---|---|
| 1. Subject to the NSPS for carbon monoxide (CO) in 40 CFR 60.103. | Not applicable .....  | Continuous emission monitoring system to measure and record the concentration by volume (dry basis) of CO emissions from each catalyst regenerator vent.  |
| 2. Not subject to the NSPS for CO in 40 CFR 60.103.               | a. Thermal incinerator .....<br><br>b. Process heater or boiler with a design heat input capacity under 44 MW or process heater or boiler in which all vent streams are not introduced into the flame zone.<br><br>c. Flare .....<br><br>d. No control device ..... | Continuous emission monitoring system to measure and record the concentration by volume (dry basis) of CO emissions from each catalyst regenerator vent; or continuous parameter monitoring systems to measure and record the combustion zone temperature and oxygen content (percent, dry basis) in the incinerator vent stream.<br><br>Continuous emission monitoring system to measure and record the concentration by volume (dry basis) of CO emissions from each catalyst regenerator vent; or continuous parameter monitoring systems to measure and record the combustion zone temperature.<br><br>Monitoring device such as a thermocouple, an ultraviolet beam sensor, or infrared sensor to continuously detect the presence of a pilot flame.<br><br>Continuous emission monitoring system to measure and record the concentration by volume (dry basis) of CO emissions from each catalyst regenerator vent. |

[67 FR 17773, Apr. 11, 2002, as amended at 70 FR 6942, 6948, Feb. 9, 2005]

**TABLE 11 TO SUBPART UUU OF PART 63—REQUIREMENTS FOR PERFORMANCE TESTS FOR ORGANIC HAP EMISSIONS FROM CATALYTIC CRACKING UNITS NOT SUBJECT TO NEW SOURCE PERFORMANCE STANDARD (NSPS) FOR CARBON MONOXIDE (CO)**

As stated in §63.1565(b)(2) and (3), you shall meet each requirement in the following table that applies to you.

| For . . .  | You must . . .  | Using . . .  | According to these requirements . . .  |
|--|---|--|--|
| 1. Each new or existing catalytic cracking unit catalyst regenerator vent. | a. Select sampling port's location and the number of traverse ports.<br><br>b. Determine velocity and volumetric flow rate.<br><br>c. Conduct gas molecular weight analysis.<br><br>d. Measure moisture content of the stack gas. | Method 1 or 1A in appendix A to part 60 of this chapter.<br><br>Method 2, 2A, 2D, 2F, or 2G in appendix A to part 60 of this chapter, as applicable.<br><br>Method 3, 3A, or 3B in appendix A to part 60 of this chapter, as applicable.<br><br>Method 4 in appendix A to part 60 of this chapter. | Sampling sites must be located at the outlet of the control device or the outlet of the regenerator, as applicable, and prior to any releases to the atmosphere. |